PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IMH011WO	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No.	International filing date (day/month/year)	Priority date (day/month/year)				
PCT/EP2004/014151	13.12.2004	22.12.2003				
International Patent Classification (IPC) or nati	ional classification and IPC					
A61F2/34						
Applicant PLUS ORTHOPEDICS AG						
This report is the international preli- under Article 35 and transmitted to the		International Preliminary Examining Authority				
2. This REPORT consists of a total of	5 sheets, including	g this cover sheet.				
3. This report is also accompanied by A	NNEXES, comprising:					
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:				
sheets of the descrip	otion, claims and/or drawings which have been	amended and are the basis for this report and/or ale 70.16 and Section 607 of the Administrative				
sheets which supers	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental					
	D					
b. [] (sent to the International	Bureau only) a total of (indicate type and number	er of electronic carrier(s))				
related thereto, in computer	, containing a sequence listing and/or tables					
*	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relati	ng to the following items:					
Box No. I Basis of the	Box No. I Basis of the report					
Box No. II Priority						
Box No. III Non-establi	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of uni	Box No. IV Lack of unity of invention					
BOX 110. Y						
Box No. VI Certain doc						
Box No. VII Certain defe	ects in the international application					
Box No. VIII Certain obs	ervations on the international application					
Date of submission of the demand	Date of completion of the	uis report				
Name and mailing address of the IPEA/EP	Authorized officer					
Facsimile No.	Telephone No.					

International application No.

PCT/EP2004/014151

Вох	No. I	Basis of the report			
1.		n regard to the language , this report is based on the internaticated under this item.	ional application in the language in which	it was filed, unless otherwise	
		This report is based on translations from the original languable which is the language of a translation furnished for the pure translation furnished furnished furnished for the pure translation furnished fu		,	
		international search (Rule 12.3 and 23.1(b))			
		publication of the international application (Rule 12	.4)		
		international preliminary examination (Rule 55.2 an	d/or 55.3)		
2.	rece	n regard to the elements of the international application, th iving Office in response to an invitation under Article 14 or report):			
		the international application as originally filed/furnished			
	\boxtimes	the description:			
		pages <u>1-8</u>		as originally filed/furnished	
		pages*	received by this Authority on		
		pages*	received by this Authority on		
	\boxtimes	the claims:			
		nos. <u>1-4</u>		as originally filed/furnished	
		nos.*			
		nos.*	received by this Authority on		
		nos.*	received by this Authority on		
	\boxtimes	the drawings:			
		sheets 1/2-2/2		as originally filed/furnished	
			received by this Authority on		
		sheets*			
		a sequence listing and/or any related table(s) – see Supple			
3.	$\overline{\Box}$	The amendments have resulted in the cancellation of:	mention is an incoming to sequence is an in-		
3.	ш				
		the description, pages			
			the claims, nos.		
		the drawings, sheets/figs			
4		any table(s) related to sequence listing (specify):	1 4 14 15 4 15 4		
4.	Ш	This report has been established as if (some of) the amer they have been considered to go beyond the disclosure as	filed, as indicated in the Supplemental Bo	ox (Rule 70.2(c)).	
		the description, pages			
		the claims, nos.			
		the drawings, sheets/figs			
		the sequence listing (specify):			
		any table(s) related to sequence listing (specify):			
*	If ite	rm 4 applies, some or all of those sheets may be marked "su	perseded."		

International application No.
PCT/EP2004/014151

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			
	Novelty	(N)	Claims 1-4	YES
			Claims	NO
	Inventive	step (IS)	Claims 1-4	YES
			Claims	
	Industria	l applicability (IA)	Claims 1-4	YES
			Claims	
2.	Citations and	l explanations (Rule 70	0.7)	
	1.		rt makes reference to the following	
	-•	documents:	-	
		accamenes.	•	
		D1: DE 44	4 28 290 A1 (KUBEIN-MEESENBURG, DIETMAR,	
			. DR., 37547 KREIENSEN, DE; THEUSNER,) 15	
			uary 1996 (1996-02-15)	
			3 35 931 A1 (CERASIV GMBH INNOVATIVES	
			MIK-ENGINEERING, 73207 PLOCHINGEN, DE) 27	
		Apri	1 1995 (1995-04-27)	
		D3: EP-A-	-0 655 230 (CERASIV GMBH INNOVATIVES	
		KERAN	MIK-ENGINEERING) 31 May 1995 (1995-05-31)	
		D4: EP-A-	-0 694 294 (HERMANN, WERNER) 31 January	
		1996	(1996-01-31)	
	2.	D1, as the	e closest prior art, discloses (see	
		figure 12)) a joint socket for a hip	
		endoprosth	hesis, said joint socket having a socket	
		shell 2 th	hat can be implanted into the hipbone and	
		a socket	insert 4 for mounting the swivel head,	
		the spheri	ical outer surface of the socket insert	
		(see colur	mn 8, lines 5 and 6) resting in a	
		receiving	area of the socket shell and being in	
		contact wi	ith the inner surface of the receiving	

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

area along a contact line that is concentric to the rotational axis of the receiving area, and the inner surface of the receiving area narrowing in the region of this contact line toward the pole of the receiving area in such a way that the radius of curvature in this region is always larger than the spherical radius of the outer surface of the socket insert.

The subject matter of the present application differs from the joint socket according to **D1** in that the joint insert can be clamped in a self-locking manner in the receiving area.

The problem to be solved thereby can be regarded as that of providing a simple and freely alignable connection between the socket shell and the socket insert.

Although conical clamp connections for preventing the socket insert from twisting in or falling out of the socket shell are known, for example, from D2, a combination of D1 and D2 is not considered to be obvious because D2 allows only a predetermined relative alignment between the socket shell and socket insert, not free alignment, owing to a conical contact surface between the socket shell and socket insert on either side.

The subject matter of claim 1 therefore meets the requirements of PCT Article 33(2) and 33(3).

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
3.	Claims 2 to 4 relate to special embodiments of the
	joint socket according to claim 1 and therefore
	also meet the requirements of PCT Article 33(2)
	and 33(3).